МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ
КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР

МАТЕРІАЛИ
X ВСЕУКРАЇНСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ СТУДЕНТІВ, АСПІРАНТІВ ТА ВИКЛАДАЧІВ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ

"WITH FOREIGN LANGUAGES TO MUTUAL UNDERSTANDING, BETTER TECHNOLOGIES AND ECOLOGICALLY SAFER ENVIRONMENT"

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FROM REAL TO VIRTUAL

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Each of us is a part of the Progress. Every our dream or our desire is a fuel of the big machine named – technology. Originally, humans are lazy, and therefore we not only survived but we become cleverer. What if an ancient human hadn't been so lazy and had not invented a wheel or spear? I think, It would be much harder to survive. However, let's continue.

Nowadays, science and technology have reached a high level of development, it is used everywhere, in every part of our life. In the last 20 years a new idea about creating a new machine that will be able to perform tasks that normally require human intelligence appears.

One day we will know everything about our world. And what will be next? We will create a new world! We have already started.

What do you know about AI? However, it does not matter how much you are aware of this, I will still tell you about it.

Artificial intelligence (AI) is the intelligence exhibited by machines or software. Major AI researchers and textbooks define this field as the study and design of intelligent agents in which an intelligent agent is a system that perceives its environment and takes actions that maximize its chances of success. It has become an essential part of the technology industry.

Actually, research associated with artificial intelligence is highly technical and specialized.AI should solve a big number of problems, by using its knowledge and reasoning. It must analyze information, process and make conclusions by itself. However, it is hard to do, because if people want to make intelligence by themselves, firstly, we should understand how our own brain is working.

Nowadays we can excrete two basic lines of AI development:
-   solving problems associated with the approaching of the specialized AI systems to human capabilities;

- creation of AI, which includes all already existing system.

A few of the longest standing questions that have remained unanswered are the following: should artificial intelligence simulate natural intelligence by studying psychology or neurology? Or is human biology irrelevant to AI research? For the years of learning a number of theories have appeared. There are logic-based, knowledge-based and sub-symbolic approaches.

Some developments of AI have already been used in everyday life. So, let's review some of them.

Banks use artificial intelligence systems (AIS) in the insurance business, while playing at the stock exchange. Form recognition methods (including more complex and specialized, as well as neural networks) are widely used in optical and acoustic recognition (including text and speech), medical diagnostics, spam filters, air defense systems.

AI is also used in education and music. Some people also can use elements of AI by 'Smart electro cars' (5 in Sumy) and 'Smart homes'.

Also safety systems worth mentioning. Safety is the condition of being safe; freedom from danger, risk, or injury.

Safety has always had a high priority to the implementation of technologies. Nowadays it is widely used in all fields and use such parts as:
- biometrics;
- covert surveillance systems;
- sensors, detectors, electronic analyzers.

Well, the last point is virtual reality. It is one of the greatest things ever. Why? Because virtual reality is a completely new world, where you can do whatever you want. Firstly, to control the process of making their own world people used difficult contraction, then they start to use a keyboard instead of a mouse. However, now we can use high technologies and wireless controllers. Also there is technology named IR Tracking and the principle of usage of 3D visualization, that are used in creating virtual reality.

In conclusion, it should be noted that some advancements we can use even now. And we have reviewed these examples.